

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	10/063,370	TOTH, THOMAS L.	
	Examiner	Art Unit	
	Anthony Mackowey	2623	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed 4/16/2002.
2. ☒ The allowed claim(s) is/are 1-23.
3. ☒ The drawings filed on 16 April 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>7/23/2002</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                                | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Tim Ziolkowski (Reg. No. 38368) on 4/6/05.

The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

In Figure 3, the serial link connecting the operator console 52 and the pulse generator module 78 was incorrectly labeled "60" which is also the reference number for the computer system. Changing the label of the serial link to "80" in accordance with the detailed description of the invention (paragraph 0020, lines 2-3) corrects the problem.

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

### ***Reasons for Allowance***

The following is an examiner's statement of reasons for allowance:

Claim 1 recites the step of interchanging at least one pixel from an image of the first phantom with at least one pixel from an image of the second phantom.

Claim 9 recites randomly remove a set of pixels of the image of the uniform phantom and replace with a set of pixels of the image of the LCD (low contrast detectability) phantom.

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Claim 18 recites incorporate an image of the LCD (low contrast detectability) phantom into the image of the uniform phantom and form a test image therefrom.

The above features, as explicitly recited, and in combination with the other elements of the claims, are neither disclosed nor suggested by the prior art of record. Claims 2-8 depend from claim 1. Claims 10-17 depend from claim 9. Claims 19-23 depend from claim 18.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent 6,694,047 to Farrokhnia et al. is cited for teaching evaluating image quality of X-ray system using template images obtained from multiple phantoms (sub-phantoms).

U.S. Patent 4,331,021 to Lopez et al. is cited for teaching a test phantom having a plurality of contrast test objects embedded within it.

U.S. Patent 5,414,479 to Ginsburg is cited for teaching a chart for testing human visual contrast sensitivity.

U.S. Patent Publication 2003/0133076 to Lehmeier et al. is cited for teaching a computer based visual-acuity test involving identifying differences in contrast between images.

U.S. Patent Publication 2003/0020873 to Fink et al. is cited for teaching a computer-based visual field testing method in which a person must regions of a low contrast test image.


**Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Mackowey whose telephone number is (571) 272-7425. The examiner can normally be reached on M-F 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on (571) 272-7414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AM  
4/6/2005

  
Jon Chang  
Primary Examiner